Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-10-11-01** **Date: 16/10/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.

Agency : Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/43/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-2018

Sample ID No : 2018-04-21-02 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	416.1	18.4	18.5
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:

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Quality Manager

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-11-01** **Date: 06/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarchalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	06/11/2018	150.74 X 150.89 X 150.87	22745	8.210	489.0	21.5	21.4
2	Drain Concrete	M20	09/10/2018	06/11/2018	150.44 X 150.89 X 150.00	22700	8.230	494.9	21.8	
3	Drain Concrete	M20	09/10/2018	06/11/2018	150.11 X 150.36 X 150.87	22571	8.450	474.0	21.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-11-01 **Date: 16/10/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.

Agency : Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/43/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-2018

Sample ID No : 2018-04-21-02 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-11-01**	**Date: 16/10/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.	
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.	
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-04-2018	
Sample ID No	:	2018-04-21-02 /01	
Customer ID	:	Drain Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M20 / 7 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.35 X 150.82 X 150.00	22676	8.220	430.8	19.0	19.4
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.44 X 150.65 X 150.89	22664	8.300	441.9	19.5	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.33 X 150.44 X 150.65	22616	8.100	445.5	19.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-11-01 **Date: 16/10/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.

Agency : Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/43/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-2018

Sample ID No : 2018-04-21-02 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.99 X 150.85 X 150.44	22777	8.298	396.3	17.4	17.6
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.78 X 150.99 X 150.48	22766	8.246	398.4	17.5	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.55 X 150.89 X 150.54	22716	8.546	406.6	17.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-11-01** **Date: 06/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	06/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	06/11/2018	150.69 X 150.87 X 150.22	22735	8.120	509.3	22.4	22.3
2	Drain Concrete	M20	09/10/2018	06/11/2018	150.63 X 150.40 X 150.54	22655	8.110	493.9	21.8	
3	Drain Concrete	M20	09/10/2018	06/11/2018	150.88 X 150.78 X 150.90	22750	8.150	514.1	22.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-11-01** **Date: 16/10/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.99 X 150.85 X 150.44	22777	8.298	396.3	17.4	17.6
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.78 X 150.99 X 150.48	22766	8.246	398.4	17.5	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.55 X 150.89 X 150.54	22716	8.546	406.6	17.9	

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-10-11-01** **Date: 06/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	06/11/2018	150.90 X 150.78 X 150.47	22753	8.123	466.4	20.5	20.8
2	Drain Concrete	M20	09/10/2018	06/11/2018	150.98 X 150.44 X 150.44	22713	8.568	479.3	21.1	
3	Drain Concrete	M20	09/10/2018	06/11/2018	150.98 X 150.44 X 150.66	22713	8.485	474.7	20.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/10/2018

Lab ID	:	CP-2018-10-11-01
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-2018
Sample ID No	:	2018-04-21-02 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	407.1	18.0	18.4
2	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	411.6	18.2	
3	Drain Concrete	M20	09/10/2018	16/10/2018	150.22 X 150.54 X 150.55	22614	8.111	429.7	19.0	

Note:

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-11-01 **Date: 06/11/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.

Agency : Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/43/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-04-2018

Sample ID No : 2018-04-21-02 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	09/10/2018	06/11/2018	150.69 X 150.87 X 150.22	22735	8.120	509.3	22.4	22.3
2	Drain Concrete	M20	09/10/2018	06/11/2018	150.63 X 150.40 X 150.54	22655	8.110	493.9	21.8	
3	Drain Concrete	M20	09/10/2018	06/11/2018	150.88 X 150.78 X 150.90	22750	8.150	514.1	22.6	

Note:
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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-10-05-02** **Date: 04-10-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-2018
Sample ID No	:	2018-10-05-02 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-10-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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Samples will be disposed after 90 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-10-05-02** **Date: 10-10-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-2018
Sample ID No	:	2018-10-05-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	152	152	3.0	97.0	90-100
3	10 mm	3102	3254	65.1	34.9	25-55
4	4.75 mm	1598	4852	97.0	3.0	0-10
5	Pan	148	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-10-05-02** **Date: 10-10-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-2018
Sample ID No	:	2018-10-05-02 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-10-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	18	18	1.8	98.2	90-100	90-100	90-100	95-100
3	2.36 mm	185	203	20.3	79.7	60-95	75-100	85-100	95-100
4	1.18 mm	228	431	43.1	56.9	30-70	55-90	75-100	90-100
5	600 micron	187	618	61.8	38.2	15-34	35-59	60-79	80-100
6	300 micron	199	817	81.7	18.3	5-20	8-30	12-40	15-50
7	150 micron	132	949	94.9	5.1	0-10	0-10	0-10	0-15
8	Pan	51	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-10-05-02 **Date: 04-10-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-10-2018
Sample ID No	:	2018-10-05-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-10-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	-
2	Finess by Air permeablity method (m^2/kg,Min)	293.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	-
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-10-05-02** **Date: 10-10-2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Harohalli Village and surrounding area in ward No-02.
Agency	:	Sri.M.N.Ramaiah No:28,6th Main Road,BSK 3rd Stage, Hosakarehalli, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/43/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-10-2018
Sample ID No	:	2018-10-05-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	218	218	1.5	98.5	90-100
3	20 mm	7289	7507	50.0	50.0	30-70
4	10 mm	5102	12609	84.1	15.9	10-35
5	4.75 mm	2185	14794	98.6	1.4	0-5
6	Pan	206	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-10-05-02** **Date: 10-10-2018**

Sample ID No : 2018-10-05-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.18	–

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